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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/076,421	02/19/2002	Manabu Wada	HAYAK-9	9291
23599	7590 08/26/2005	-	EXAM	INER
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.			PARKIN, JEFFREY S	
2200 CLARENDON BLVD. SUITE 1400 ARLINGTON, VA 22201			ART UNIT	PAPER NUMBER
			1648	
			DATE MAILED: 08/26/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Analia and a			
	Application No.	Applicant(s)			
Office Action Commence	10/076,421	WADA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jeffrey S. Parkin, Ph.D.	1648			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply No period for reply specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statutionary reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirply within the statutory minimum of thirty (30) day of will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>07 April 2005</u> .					
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.				
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 6,7 and 9-34 is/are pending in the application. 4a) Of the above claim(s) 6,7 and 9-26 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 27-34 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	•				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Serial No.: 10/076,421 Docket No.: HAYAK-9
Applicants: Wada, M., and N. Wada Filing Date: 02/19/02

Detailed Office Action

Status of the Claims

Acknowledgement is hereby made of receipt and entry of the communication filed 07 April, 2005. The finality of the last office action has been withdrawn in view of the grounds of rejection set forth below. Claims 6, 7, and 9-26 stand withdrawn from further consideration by the examiner, pursuant to 37 C.F.R. § 1.142(b), as being drawn to a non-elected invention. Claims 27-34 are currently under examination.

35 U.S.C. § 112, First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The previous rejection of claims 27-34 under 35 U.S.C. § 112, first paragraph, because the specification does not reasonably enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims, is hereby withdrawn in response to applicants' arguments.

35 U.S.C. § 103(a)

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. § 103(c) and potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103(a).

The previous rejection of claims 27-34 under 35 U.S.C. § 103(a) as being unpatentable over Stoppelli *et al.* (1985), is hereby withdrawn in view of the following rejection.

Claims 27-34 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Rosenberg et al. (2001) in view of Li et al. (2003). Rosenberg et al. (2001) disclose methods for the treatment of urokinase-type plasminogen activator-mediated disorders (i.e., inappropriate angiogenesis, metastatic events, etc.) through the administration of pharmaceutical compounds comprising uPA polypeptide antagonists. This teaching provides considerable detail about suitable pharmaceutical formulations and sites of administration (see col. 6, lines 22-61). This

paragraph clearly discusses suitable aqueous and non-aqueous mediums and suitable excipients such as polyalcohols, vegetable oils, and organic esters. Moreover, the specification clearly states (see col. 6, lines 21-24) that antagonists can be "administered orally, topically, or by parenteral means. including subcutaneous and intramuscular injection, implantation of sustained release depots, intravenous injection, intranasal administration, and the like." The use of lyophilized powders was discussed later in the same paragraph (see col. 6, lines 55-61) wherein it was stated that "one may provide a huPAR antagonist in solid form, especially as a lyophilized powder. Lyophilized formulations typically contain stabilizing and bulking agents, for example human serum albumin, sucrose, mannitol, and the like." Thus, this teaching provides all of the claimed limitations pertaining to pharmaceutical formulations. This teaching does not provide a pharmaceutical composition comprising the ATF of HMW-uPA as the ingredient.

Li et al. (2003) demonstrate that the amino terminal fragment (ATF; amino acids 1-135) of HMW-uPA is capable of inhibiting uPA-uPAR binding events thereby abrogating inappropriate signaling associated with various malignancies (see bridging 1 and 2; col. 15, lines 57-61; bridging paragraph, cols. paragraph, cols. 15 and 16). Various pharmaceutical compositions are also disclosed (see cols. 17 and 18). does not disclose a pharmaceutical composition comprising the ATF alone as the active ingredient (the ATF was expressed from an adenovirus delivery vector instead).

However, it would have been *prima facie* obvious to one having ordinary skill in the art at the time the invention was made to prepare various pharmaceutical formulations (i.e., lyophilized powder for intranasal delivery) as taught by Rosenberg *et al*.

(2001), comprising the ATF of uPA as the active ingredient, as suggested by Li et al. (2003), since this would provide a facile means for delivering and treating uPA-mediated disorders.

Correspondence

Any inquiry concerning this communication should be directed to Jeffrey S. Parkin, Ph.D., whose telephone number is (571) 272-0908. The examiner can normally be reached Monday through Thursday from 10:30 AM to 9:00 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, James C. Housel, can be reached at (571) 272-0902. Direct general status inquiries to the Technology Center 1600 receptionist at (571) 272-1600. Informal communications may be submitted to the Examiner's RightFAX account at (571) 273-0908.

Applicants are reminded that the United States Patent and Trademark Office (Office) requires most patent correspondence to be: a) faxed to the Central FAX number (571-273-8300) (updated as of July 15, 2005), b) hand carried or delivered to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), c) mailed to the mailing address set forth in 37 C.F.R. P.O. Box 1450, Alexandria, VA 22313-1450), transmitted to the Office using the Office's Electronic Filing System. This notice replaces all prior Office notices specifying a specific fax number or hand carry address for certain patent related correspondence. For further information refer to the Updated Notice of Centralized Delivery and Facsimile Transmission Policy for Patent Related Correspondence, Exceptions Thereto, 1292 Off. Gaz. Pat. Office 186 (March 29, 2005).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

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access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully,

Jeffrey S. Parkin, Ph.D.

Primary Examiner Art Unit 1648

18 August, 2005